

**Abstract of the Invention**

A system and method for wireless network planning utilizing raster data, stored and manipulated in raster data planes (204-212) and vector data (522) stored and manipulated in vector data planes (528-532). The invention increases the accuracy of network planning by simultaneously utilizing vector data planes (528-532) and raster data planes (204-212) to perform computations using vector features contained within map pixels (604). The disclosed method makes it possible to perform accurate computations such as propagation loss to vector points (602) contained within map pixels (604). Accuracy is further increased because other characteristics such as received power, elevation, and best server can be computed to the vector features rather than processing them with traditional raster resolutions.